



**Matrix Environmental, Inc.**

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10 October 2003

Ms. Bhooma Sundar  
U.S. Environmental Protection Agency  
Region V  
RCRA Enforcement and Compliance Assurance Branch (DE-9J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Re: Techalloy Site Progress Report for September 2003

Dear Ms. Sundar:

Enclosed please find the Monthly Progress Report for the Techalloy Company located in Union, Illinois for the month of September 2003. Also, enclosed are the effluent analytical results for this month.

If you have any comments or questions regarding the progress of this project, please do not hesitate to call me at (847) 367-6835.

Sincerely,

Carlos J. Serna, P.G.  
**Matrix Environmental, Inc.**

CJS:sk

Attachment

cc: David Williams, Techalloy  
Henry Lopes, Techalloy  
Scott Carr, Techalloy  
Steve Hughes, Techalloy  
Kevin Lesko, IEPA

**MONTHLY PROGRESS REPORT**  
**Techalloy Site**  
**1 September through 30 September 2003**

1. **Progress Made This Reporting Period** – This reporting period Techalloy continued the operation and maintenance of the groundwater extraction system, air sparging system, and soil vapor extraction system according to specifications. Also, this reporting period the streamline risk assessment to assess the vapor inhalation of chlorinated solvents was prepared. The results of this streamline risk assessment conclude that vapor accumulation at potential indoor structures located 100 feet to 250 feet northwest (downgradient) of the existing Techalloy buildings will not cause an adverse cancer or noncancer excess impact to commercial/industrial receptors. The incremental increase in cancer risk for suspected carcinogens are all within a manageable risk range ( $10^{-6}$  to  $10^{-4}$ ) and all the incremental increase in noncancer risk are less than one and considered within an expectable hazardous quotient. It was concluded that no adverse excess indoor vapor inhalation impact exists at the Techalloy plant. It was further emphasized that the areas inside the Techalloy buildings are located upgradient of the existing plume and shallow groundwater is not impacted with VOCs.

The U.S. EPA visited the Techalloy facility this month to introduce Ms. Bhooma Sundar, the new EPA project manager to the facility operations and environmental activities.

2. **Summary of Validated Data and Results** – This reporting period no validation of data was necessary.
3. **Upcoming Events/Activities Planned** – The existing remediation systems will continue to operate as planned.
4. **Anticipated Problem Areas and Recommended Solutions** – There are no current or anticipated problem areas to be resolved.
5. **Key Personnel Changes** – There has been no change of key personnel this reporting period.
6. **Target and Actual Completion Dates** – This project has not deviated from the project schedule.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: TECHALLOY COMPANY, INC.  
ADDRESS: OLSON AND JEFFERSON BOARDS  
UNION IL 60150

FACILITY: TECHALLOY COMPANY, INC.  
LOCATION: UNION IL 60150

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

110070403  
PERMIT NUMBER

001 0  
DISCHARGE NUMBER

REPOR  
(SUBR 02)  
P - FINAL

TREATED GROUNDWAER  
EXPLORAT

NO DISCHARGE ☐ ☒  
NOTE: Read instructions before completing this form.


PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		8.0	*****	8.0	( 12)	0	285	GR
	PERMIT REQUIREMENT							50			
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT	*****	*****	( 26)	*****	*****	.0001	( 19)	0	285	GR
34506 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY				MG/L			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	.908	.908	( 03)	*****	*****	*****		0	105	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			MGD				*****			
TETRACHLOROETHENE	SAMPLE MEASUREMENT	*****	*****	( 26)	*****	*****	.0001	( 19)	0	285	GR
78387 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY				MG/L			
TRICHLOROETHENE	SAMPLE MEASUREMENT	*****	*****	( 26)	*****	*****	.0001	( 19)	0	285	GR
78391 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY				MG/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Scott Carr/ Environmental Coordinator

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 815-923-2131

DATE: 03 10 06

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Result for September: Below Reporting Limits